



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

PLAN APPROVAL

Issue Date: April 2, 2012 Effective Date: December 16, 2013
Revision Date: December 16, 2013 Expiration Date: April 16, 2016
Revision Type: Modification

In accordance with the provisions of the Air Pollution Control Act, the Act of January 8, 1960, P.L. 2119, as amended, and 25 Pa. Code Chapter 127, the Owner, [and Operator if noted] (hereinafter referred to as permittee) identified below is authorized by the Department of Environmental Protection (Department) to construct, install, modify or reactivate the air emission source(s) more fully described in the site inventory list. This Facility is subject to all terms and conditions specified in this plan approval. Nothing in this plan approval relieves the permittee from its obligations to comply with all applicable Federal, State and Local laws and regulations.

The regulatory or statutory authority for each plan approval condition is set forth in brackets. All terms and conditions in this permit are federally enforceable unless otherwise designated as "State-Only" requirements.

Plan Approval No. 32-00055H

Federal Tax Id - Plant Code: 80-0833693-1

Owner Information

Name: HOMER CITY GENERATION LP
Mailing Address: 1750 POWER PLANT RD
HOMER CITY, PA 15748-8009

Plant Information

Plant: HOMER CITY GEN LP/ CENTER TWP
Location: 32 Indiana County 32912 Center Township
SIC Code: 4911 Trans. & Utilities - Electric Services

Operator

Name: NRG HOMER CITY SERVICES LLC [If different from owner]
Mailing Address: 1750 POWER PLANT RD
HOMER CITY, PA 15748-8009

Responsible Official

Name: LEO C RAJTER
Title: STATION GEN MGR
Phone: (724) 479 - 6233

Plan Approval Contact Person

Name: GARY CLINE
Title: ENVIRONMENTAL MANAGER
Phone: (724) 479 - 6255

[Signature] _____
MARK A. WAYNER, SOUTHWEST REGION AIR PROGRAM MANAGER



Plan Approval Description

This Plan Approval is to allow the installation and temporary operation of dry flue gas desulfurization ("FGD") systems with fabric filters and associated support equipment for the control of SO_x emissions from Unit 1 and 2 by NRG Homer City Services, LLC at the Homer City Generating Station located in Black Lick & Center Townships, Indiana County. Steam turbine efficiency upgrades for Unit 1 & 2 are also allowed under this Plan Approval. This Plan Approval has been modified to include a combined hourly SO₂ emission limit on Units 1, 2, & 3. This Plan Approval has been modified to more accurately define the Units 1 & 2 startup period.

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Note: These same sub-sections are repeated for each source!

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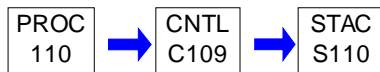
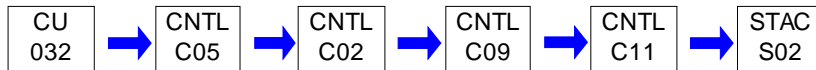
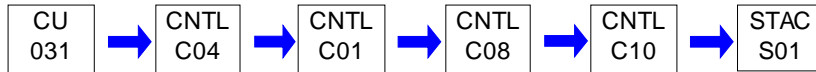
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SECTION A. Plan Approval Inventory List

Source ID	Source Name	Capacity/Throughput	Fuel/Material
031	BOILER NO.1 (UNIT 1)	6,792.000 MMBTU/HR	
032	BOILER NO.2 (UNIT 2)	6,792.000 MMBTU/HR	
110	LIME & BYPRODUCT STORAGE & HANDLING SYSTEMS		
C01	ESP UNIT 1 W/NH3 CONDITIONING		
C02	ESP UNIT 2 W/NH3 CONDITIONING		
C04	SCR - UNIT 1 (SELECTIVE CATALYTIC REDUCTION)		
C05	SCR - UNIT 2 (SELECTIVE CATALYTIC REDUCTION)		
C08	ACI - UNIT 1 (ACTIVATED CARBON INJECTION)		
C09	ACI - UNIT 2 (ACTIVATED CARBON INJECTION)		
C10	NID - UNIT 1 (NOVEL INTEGRATED DESULFURIZATION SYSTEM)		
C109	BIN VENT FILTERS		
C11	NID - UNIT 2 (NOVEL INTEGRATED DESULFURIZATION SYSTEM)		
S01	UNIT 1 STACK		
S02	UNIT 2 STACK		
S110	LIME & BYPRODUCT STORAGE SILO EMISSION POINTS		

PERMIT MAPS



SECTION B. General Plan Approval Requirements

#001 [25 Pa. Code § 121.1]

Definitions

Words and terms that are not otherwise defined in this plan approval shall have the meanings set forth in Section 3 of the Air Pollution Control Act (35 P.S. § 4003) and 25 Pa. Code § 121.1.

#002 [25 Pa. Code § 127.12b (a) (b)]

Future Adoption of Requirements

The issuance of this plan approval does not prevent the future adoption by the Department of any rules, regulations or standards, or the issuance of orders necessary to comply with the requirements of the Federal Clean Air Act or the Pennsylvania Air Pollution Control Act, or to achieve or maintain ambient air quality standards. The issuance of this plan approval shall not be construed to limit the Department's enforcement authority.

#003 [25 Pa. Code § 127.12b]

Plan Approval Temporary Operation

This plan approval authorizes temporary operation of the source(s) covered by this plan approval provided the following conditions are met.

(a) When construction, installation, modification, or reactivation is being conducted, the permittee shall provide written notice to the Department of the completion of the activity approved by this plan approval and the permittee's intent to commence operation at least five (5) working days prior to the completion of said activity. The notice shall state when the activity will be completed and when the permittee expects to commence operation. When the activity involves multiple sources on different time schedules, notice is required for the commencement of operation of each source.

(b) Pursuant to 25 Pa. Code § 127.12b (d), temporary operation of the source(s) is authorized to facilitate the shakedown of sources and air cleaning devices, to permit operations pending the issuance of a permit under 25 Pa. Code Chapter 127, Subchapter F (relating to operating permits) or Subchapter G (relating to Title V operating permits) or to permit the evaluation of the air contaminant aspects of the source.

(c) This plan approval authorizes a temporary operation period not to exceed 180 days from the date of commencement of operation, provided the Department receives notice from the permittee pursuant to paragraph (a), above.

(d) The permittee may request an extension of the 180-day shakedown period if further evaluation of the air contamination aspects of the source(s) is necessary. The request for an extension shall be submitted, in writing, to the Department at least 15 days prior to the end of the initial 180-day shakedown period and shall provide a description of the compliance status of the source, a detailed schedule for establishing compliance, and the reasons compliance has not been established. This temporary operation period will be valid for a limited time and may be extended for additional limited periods, each not to exceed 180 days.

(e) The notice submitted by the permittee pursuant to subpart (a) above, prior to the expiration of the plan approval, shall modify the plan approval expiration date on Page 1 of this plan approval. The new plan approval expiration date shall be 180 days from the date of commencement of operation.

#004 [25 Pa. Code § 127.12(a) (10)]

Content of Applications

The permittee shall maintain and operate the sources and associated air cleaning devices in accordance with good engineering practice as described in the plan approval application submitted to the Department.

#005 [25 Pa. Code §§ 127.12(c) and (d) & 35 P.S. § 4013.2]

Public Records and Confidential Information

(a) The records, reports or information obtained by the Department or referred to at public hearings shall be available to the public, except as provided in paragraph (b) of this condition.

(b) Upon cause shown by the permittee that the records, reports or information, or a particular portion thereof, but not emission data, to which the Department has access under the act, if made public, would divulge production or sales figures or methods, processes or production unique to that person or would otherwise tend to affect adversely the

SECTION B. General Plan Approval Requirements

competitive position of that person by revealing trade secrets, including intellectual property rights, the Department will consider the record, report or information, or particular portion thereof confidential in the administration of the act. The Department will implement this section consistent with sections 112(d) and 114(c) of the Clean Air Act (42 U.S.C.A. § § 7412(d) and 7414(c)). Nothing in this section prevents disclosure of the report, record or information to Federal, State or local representatives as necessary for purposes of administration of Federal, State or local air pollution control laws, or when relevant in a proceeding under the act.

#006 [25 Pa. Code § 127.12b]

Plan Approval terms and conditions.

[Additional authority for this condition is derived from 25 Pa. Code Section 127.13]

(a) This plan approval will be valid for a limited time, as specified by the expiration date contained on Page 1 of this plan approval. Except as provided in § § 127.11a and 127.215 (relating to reactivation of sources; and reactivation), at the end of the time, if the construction, modification, reactivation or installation has not been completed, a new plan approval application or an extension of the previous approval will be required.

(b) If construction has commenced, but cannot be completed before the expiration of this plan approval, an extension of the plan approval must be obtained to continue construction. To allow adequate time for departmental action, a request for the extension shall be postmarked at least thirty (30) days prior to the expiration date. The request for an extension shall include the following:

- (i) A justification for the extension,
- (ii) A schedule for the completion of the construction

If construction has not commenced before the expiration of this plan approval, then a new plan approval application must be submitted and approval obtained before construction can commence.

(c) If the construction, modification or installation is not commenced within 18 months of the issuance of this plan approval or if there is more than an 18-month lapse in construction, modification or installation, a new plan approval application that meets the requirements of 25 Pa. Code Chapter 127, Subchapter B (related to plan approval requirements), Subchapter D (related to prevention of significant deterioration of air quality), and Subchapter E (related to new source review) shall be submitted. The Department may extend the 18-month period upon a satisfactory showing that an extension is justified.

#007 [25 Pa. Code § 127.32]

Transfer of Plan Approvals

(a) This plan approval may not be transferred from one person to another except when a change of ownership is demonstrated to the satisfaction of the Department and the Department approves the transfer of the plan approval in writing.

(b) Section 127.12a (relating to compliance review) applies to a request for transfer of a plan approval. A compliance review form shall accompany the request.

(c) This plan approval is valid only for the specific source and the specific location of the source as described in the application.

#008 [25 Pa. Code § 127.12(4) & 35 P.S. § 4008 & § 114 of the CAA]

Inspection and Entry

(a) Pursuant to 35 P.S. § 4008, no person shall hinder, obstruct, prevent or interfere with the Department or its personnel in the performance of any duty authorized under the Air Pollution Control Act.

(b) The permittee shall also allow the Department to have access at reasonable times to said sources and associated air cleaning devices with such measuring and recording equipment, including equipment recording visual observations, as the Department deems necessary and proper for performing its duties and for the effective enforcement of the Air Pollution Control Act and regulations adopted under the act.

SECTION B. General Plan Approval Requirements

(c) Nothing in this plan approval condition shall limit the ability of the Environmental Protection Agency to inspect or enter the premises of the permittee in accordance with Section 114 or other applicable provisions of the Clean Air Act.

#009 [25 Pa. Code 127.13a]

Plan Approval Changes for Cause

This plan approval may be terminated, modified, suspended or revoked and reissued if one or more of the following applies:

- (a) The permittee constructs or operates the source subject to the plan approval in violation of the act, the Clean Air Act, the regulations promulgated under the act or the Clean Air Act, a plan approval or permit or in a manner that causes air pollution.
- (b) The permittee fails to properly or adequately maintain or repair an air pollution control device or equipment attached to or otherwise made a part of the source.
- (c) The permittee fails to submit a report required by this plan approval.
- (d) The Environmental Protection Agency determines that this plan approval is not in compliance with the Clean Air Act or the regulations thereunder.

#010 [25 Pa. Code §§ 121.9 & 127.216]

Circumvention

- (a) The permittee, or any other person, may not circumvent the new source review requirements of 25 Pa. Code Chapter 127, Subchapter E by causing or allowing a pattern of ownership or development, including the phasing, staging, delaying or engaging in incremental construction, over a geographic area of a facility which, except for the pattern of ownership or development, would otherwise require a permit or submission of a plan approval application.
- (b) No person may permit the use of a device, stack height which exceeds good engineering practice stack height, dispersion technique or other technique which, without resulting in reduction of the total amount of air contaminants emitted, conceals or dilutes an emission of air contaminants which would otherwise be in violation of this plan approval, the Air Pollution Control Act or the regulations promulgated thereunder, except that with prior approval of the Department, the device or technique may be used for control of malodors.

#011 [25 Pa. Code § 127.12c]

Submissions

Reports, test data, monitoring data, notifications shall be submitted to the:

Regional Air Program Manager
PA Department of Environmental Protection
(At the address given on the plan approval transmittal letter or otherwise notified)

#012 [25 Pa. Code § 127.12(9) & 40 CFR Part 68]

Risk Management

(a) If required by Section 112(r) of the Clean Air Act, the permittee shall develop and implement an accidental release program consistent with requirements of the Clean Air Act, 40 CFR Part 68 (relating to chemical accident prevention provisions) and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act (P.L. 106-40).

(b) The permittee shall prepare and implement a Risk Management Plan (RMP) which meets the requirements of Section 112(r) of the Clean Air Act, 40 CFR Part 68 and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act when a regulated substance listed in 40 CFR § 68.130 is present in a process in more than the listed threshold quantity at the facility. The permittee shall submit the RMP to the Environmental Protection Agency according to the following schedule and requirements:

(1) The permittee shall submit the first RMP to a central point specified by the Environmental Protection Agency no later than the latest of the following:

SECTION B. General Plan Approval Requirements

- (i) Three years after the date on which a regulated substance is first listed under § 68.130; or,
- (ii) The date on which a regulated substance is first present above a threshold quantity in a process.

(2) The permittee shall submit any additional relevant information requested by the Department or the Environmental Protection Agency concerning the RMP and shall make subsequent submissions of RMPs in accordance with 40 CFR § 68.190.

(3) The permittee shall certify that the RMP is accurate and complete in accordance with the requirements of 40 CFR Part 68, including a checklist addressing the required elements of a complete RMP.

(c) As used in this plan approval condition, the term "process" shall be as defined in 40 CFR § 68.3. The term "process" means any activity involving a regulated substance including any use, storage, manufacturing, handling, or on-site movement of such substances or any combination of these activities. For purposes of this definition, any group of vessels that are interconnected, or separate vessels that are located such that a regulated substance could be involved in a potential release, shall be considered a single process.

#013 [25 Pa. Code § 127.25]**Compliance Requirement**

A person may not cause or permit the operation of a source subject to § 127.11 (relating to plan approval requirements), unless the source and air cleaning devices identified in the application for the plan approval and the plan approval issued to the source, are operated and maintained in accordance with specifications in the application and conditions in the plan approval issued by the Department. A person may not cause or permit the operation of an air contamination source subject to this chapter in a manner inconsistent with good operating practices.

SECTION C. Site Level Plan Approval Requirements

I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Combined SO₂ emissions from Unit 1, Unit 2, and Unit 3 shall not exceed 6,360 lb/hr at any time, including during periods of startup or shutdown.

Operation Hours Restriction(s).

002 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

No more than one unit (Unit 1, Unit 2, or Unit 3) shall operate in startup mode simultaneously.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The Owner/Operator shall maintain on site the following comprehensive and accurate records for the air contamination sources and air cleaning devices authorized under this Plan Approval:

- * Amount of lime delivered to the Facility per month by rail, by truck, and in total.
- * Amount of lime used in Unit 1 & 2 each month.
- * Amount of byproduct disposal per month.
- * Results of visible stack, fugitive, and malodor emission inspections.
- * The developed maintenance schedule for, and all maintenance activities performed on, the NID systems.
- * The developed maintenance schedule for, and all maintenance activities performed on, each bin vent collector.

004 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

All logs and required records shall be maintained on site for a minimum of five years and shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.

005 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The Owner/Operator of each stationary source emitting greenhouse gases (GHG) in the form of CO₂ equivalent (CO₂e), and GHG on a mass-basis shall add actual emissions of GHG in the form of CO₂e and GHG on a mass basis to the calendar year source report currently required under TV-32-00055. A description of the method used to calculate the emissions and the time period over which the calculation is based shall be included. The statement shall also contain a certification by a company officer or the plant manager that the information contained in the statement is accurate.

006 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Malfunction reporting shall be conducted as follows:

- a. The Owner/Operator shall report each malfunction that occurs at this facility that poses an imminent and substantial danger to the public health and safety or the environment or which it should reasonably believe may result in citizen complaints to the Department. For purposes of this condition a malfunction is defined as any sudden, infrequent, and not

SECTION C. Site Level Plan Approval Requirements

reasonably preventable failure of air pollution control equipment or a process to operate in a normal or usual manner that may result in an increase in the emission of air contaminants.

b. When the malfunction poses an imminent and substantial danger to the public health and safety or to the environment, the notification shall be submitted to the Department no later than one hour after the incident.

i. The report shall describe the:

- a) Name and location of the facility;
- b) Nature and cause of the malfunction;
- c) Time when the malfunction or breakdown was first observed;
- d) Expected duration of increased emissions; and
- e) Estimated rate of emissions.

ii. The Owner/Operator shall notify the Department immediately when corrective measures have been accomplished.

iii. Subsequent to the malfunction, the owner or operator shall submit a full report on the malfunction to the Department within 15 days, if requested.

iv. The owner or operator shall submit reports on the operation and maintenance of the source to the Regional Air Program Manager at such intervals and in such form and detail as may be required by the Department. Information required in the reports may include, but is not limited to, process weight rates, firing rates, hours of operation, and maintenance schedules.

c. Malfunctions shall be reported to the Department at the following address:

PA DEP
Office of Air Quality
400 Waterfront Drive
Pittsburgh, PA 15222-4745
(412) 442-4000

VI. WORK PRACTICE REQUIREMENTS.**# 007 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The Owner/Operator shall develop an operation and maintenance (O&M) plan for the NID systems and submit the information to the Department for approval within 180 days of completion of optimization each NID system as verified by the EPC contractor.

008 [25 Pa. Code §127.25]**Compliance requirement.**

All air contamination sources and air cleaning devices authorized under this Plan Approval shall be operated according to the developed operating procedures and maintained according to the developed maintenance schedule.

VII. ADDITIONAL REQUIREMENTS.**# 009 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Upon completion of the Initial Operating Permit Inspection and determination by the Department that the source(s) covered by this Plan Approval are in compliance with all conditions of the Plan Approval, and at least 60 days prior to the expiration date of the Plan Approval, the Owner/Operator shall either submit a revision to a pending Title V Operating Permit ("TVOP") renewal application, or submit a TVOP administrative amendment application for this Facility.

SECTION C. Site Level Plan Approval Requirements

010 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

This Plan Approval is to allow the installation and temporary operation of dry flue gas desulfurization ("FGD") systems with fabric filters and associated support equipment for the control of SO_x emissions from Unit 1 and 2 by EME Homer City Generation, LP at its Homer City Generating Station ("Homer City GS") located in Black Lick & Center Townships, Indiana County. Steam turbine efficiency upgrades for Unit 1 & 2 are also allowed under this Plan Approval.

011 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

New air contamination sources and air cleaning devices authorized to be installed at the Facility under this Plan Approval are as follows:

- * One (1) lime unloading and handling system.
- * One (1) byproduct handling system.
- * Two (2) Alstom, Novel Integrated Desulfurization ("NID") systems, including Alstom pulse jet fabric filters, capable of controlling emissions from Unit 1 and 2.

012 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

If the Department has cause to believe that air contaminant emissions from the sources listed in this Plan Approval may be in excess of the limitations specified in, or established pursuant to this plan approval or the permittee's operating permit, the permittee may be required to conduct test methods and procedures deemed necessary by the Department to determine the actual emissions rate. Such testing shall be conducted in accordance with 25 Pa. Code Chapter 139, where applicable, and in accordance with any restrictions or limitations established by the Department at such time as it notifies the company that testing is required.

013 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The Owner/Operator shall submit a Compliance Assurance Monitoring ("CAM") plan for the operation of each of the NID systems. The CAM plan shall be submitted with the revision to the Facility's pending TVOP renewal application or with the application for an administrative amendment to the Facility's TVOP to incorporate changes authorized under this Plan Approval.

014 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

This approval does not authorize the Owner/Operator to increase the permitted heat input to Unit 1 & 2 as a result of the steam turbine efficiency upgrades (to offset pressure drop and parasitic loss due to the NID systems) associated with this project.

015 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Upon determination by the Owner/Operator that the source(s) covered by this Plan Approval are in compliance with all conditions of the Plan Approval the Owner/Operator shall contact the Department's reviewer for this authorization and schedule the Initial Operating Permit Inspection.

VIII. COMPLIANCE CERTIFICATION.

No additional compliance certifications exist except as provided in other sections of this plan approval including Section B (relating to Plan Approval General Requirements).

IX. COMPLIANCE SCHEDULE.

No compliance milestones exist.

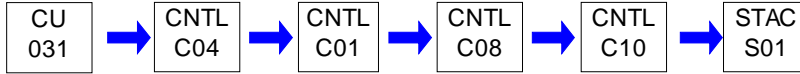
SECTION D. Source Level Plan Approval Requirements

Source ID: 031

Source Name: BOILER NO.1 (UNIT 1)

Source Capacity/Throughput: 6,792.000 MMBTU/HR

Conditions for this source occur in the following groups: G01



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

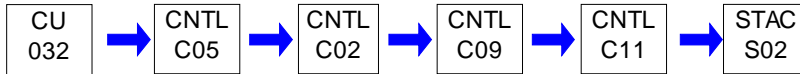
SECTION D. Source Level Plan Approval Requirements

Source ID: 032

Source Name: BOILER NO.2 (UNIT 2)

Source Capacity/Throughput: 6,792.000 MMBTU/HR

Conditions for this source occur in the following groups: G01

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

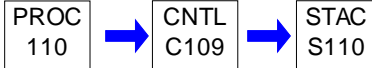
No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

SECTION D. Source Level Plan Approval Requirements

Source ID: 110

Source Name: LIME & BYPRODUCT STORAGE & HANDLING SYSTEMS

Source Capacity/Throughput:

**I. RESTRICTIONS.****Emission Restriction(s).**

001 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Visible emissions from each lime and NID byproduct storage silo shall not equal or exceed 10% opacity at any time.

Throughput Restriction(s).

002 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Lime deliveries to the Facility shall not exceed 476,544 tons in any consecutive 12-month period.

003 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Lime deliveries to the Facility by truck shall not exceed 47,654.4 tons in any consecutive 12-month period.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

III. MONITORING REQUIREMENTS.

004 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Once during each week that lime is delivered to the Facility, the Owner/Operator shall conduct an inspection during daylight hours while the sources covered in this plan approval are in operation for the presence of any visible stack emissions, and also any fugitive emissions or malodors from those same sources. If visible stack emissions, fugitive emissions, or malodors are apparent, the Owner/Operator shall take corrective action. Records of each inspection shall be maintained in a log and at the minimum include the date, time, name and title of the observer, along with any corrective action taken as a result.

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

005 [25 Pa. Code §127.25]

Compliance requirement.

Lime may be delivered to the Facility by railcars or enclosed trucks with transfer to an underground hopper followed by

SECTION D. Source Level Plan Approval Requirements

conveyance to storage silos. Particulate emissions from the lime unloading, conveying, and storage processes will be controlled by permanent transfer enclosures and dust collectors.

006 [25 Pa. Code §127.25]**Compliance requirement.**

Lime and byproduct storage silos shall not be loaded unless the enclosed transfer conveyors and dust collectors or bin vent filters are operating properly.

007 [25 Pa. Code §127.25]**Compliance requirement.**

Material handling conveyors shall be enclosed and all transfer points controlled by dust collectors.

VII. ADDITIONAL REQUIREMENTS.**# 008 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The Owner/Operator shall submit vendor-supplied bin vent filter specifications to the Department at least 60 days prior to installing the bin vent filters at the Facility. These specifications shall include a guaranteed maximum concentration of particulate matter not in excess of 0.004 gr/dscf.

SECTION E. Source Group Plan Approval Restrictions.

Group Name: G01

Group Description:

Sources included in this group

ID	Name
031	BOILER NO.1 (UNIT 1)
032	BOILER NO.2 (UNIT 2)

I. RESTRICTIONS.**Emission Restriction(s).****# 001 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Emissions of SO₂ from Unit 1 & 2 shall not exceed the following:

- * 0.20 lb/MMBtu from each Unit on a 30-day rolling average (excluding periods of startup or shutdown); and
- * 5,950 tons from each Unit in a consecutive 12-month period beginning after 1 year of operation of each NID system.

Startup for Unit 1 & 2 is defined as beginning upon firing fuel in a boiler after a shutdown event for any purpose and ending when the flue gas temperature entering the NID system is above the minimum effective operating temperature. Startup duration may not exceed the time necessary to reach the minimum effective operating temperature of the NID system.

Shutdown for Unit 1 & 2 is defined as beginning when none of the steam from the boiler is used to generate electricity for sale over the grid or for any other purpose (including on-site use), or when no fuel is being fired in the boiler, and when the flue gas temperature entering the NID system drops below the minimum effective operating temperature. Shutdown ends when all three conditions are met.

002 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

Emissions of PM (filterable + condensable) from Unit 1 & 2 shall not exceed 0.10 lb/MMBtu from each Unit. Compliance with this condition shall be determined by stack testing for filterable PM in accordance with EPA Method 5 or 5B; and for condensable PM by stack testing in accordance with EPA Method 202 or other Department approved methods.

003 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

Emissions of filterable particulate matter from Unit 1 & 2 shall not exceed 0.050 lb/MMBtu from each Unit. Compliance with this condition shall be determined by stack testing for filterable particulate matter in accordance with EPA Method 5, 5B, or other Department approved methods.

II. TESTING REQUIREMENTS.**# 004 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Performance testing shall be conducted as follows:

- The Owner/Operator shall submit three copies of a pre-test protocol to the Department for review at least 60 days prior to the performance of any EPA reference method stack test. All proposed performance test methods shall be identified in the pre-test protocol and approved by the Department prior to testing.
- The Owner/Operator shall notify the Regional Air Quality Manager at least 15 days prior to any performance test so that an observer may be present at the time of the test. Notification shall also be sent to the Division of Source Testing and Monitoring. Notification shall not be made without prior receipt of a protocol acceptance letter from the Department.
- All relevant operating parameters as identified in the Department-approved pre-test protocol (e.g boiler steam flow, air flow, gross megawatts, and O₂; CEMS heat input and stack flue gas volumetric flow rate; and NID hydrated lime feed flow rate, pressure differential, and temperature) shall be recorded during the duration of the stack tests. Operating data recorded shall be sufficient to establish that the units and the air cleaning devices are operating at maximum routine operating conditions. A discussion of the recorded operating parameters and values shall be included in the test report.

SECTION E. Source Group Plan Approval Restrictions.

d. Three (3) copies of complete test reports shall be submitted to the Department no later than 60 calendar days after completion of the on-site testing portion of an emission test program.

e. Pursuant to 25 Pa. Code Section 139.53(b) a complete test report shall include a summary of the emission results on the first page of the report indicating if each pollutant measured is within permitted limits and a statement of compliance or non-compliance with all applicable permit conditions. The summary results will include, at a minimum, the following information:

1. A statement that the owner or operator has reviewed the report from the emissions testing body and agrees with the findings.
2. Permit number(s) and condition(s) which are the basis for the evaluation.
3. Summary of results with respect to each applicable permit condition.
4. Statement of compliance or non-compliance with each applicable permit condition.

f. Pursuant to 25 Pa. Code § 139.3 all submittals shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.

g. All testing shall be performed in accordance with the provisions of Chapter 139 of the Rules and Regulations of the Department of Environmental Protection.

h. Pursuant to 25 Pa. Code Section 139.53(a)(1) and 139.53(a)(3) all submittals, besides notifications, shall be accomplished through PSIMS*Online available through <https://www.depgreenport.state.pa.us/ecommm/Login.jsp> when it becomes available. If internet submittal can not be accomplished, three copies of the submittal shall be sent to the Pennsylvania Department of Environmental Protection, Bureau of Air Quality, Division of Source Testing and Monitoring, 400 Market Street, 12th Floor Rachael Carson State Office Building, Harrisburg, PA 17105-8468 with deadlines verified through document postmarks.

005 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The Owner/Operator shall perform EPA Method stack testing for PM, PM10, PM2.5, HCl, VOC, H2SO4 (including H2SO4 mist and SO3), fluorides, lead, and mercury on the Unit 1 & 2 stacks at the Facility within 60 days of completion of optimization of each NID system as verified by the EPC contractor. Other test methods may be used if approved by the Department in writing prior to testing. Department-approved CEMS may be used in lieu of stack tests for any particular air contaminant.

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

IV. RECORDKEEPING REQUIREMENTS.**# 006 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The Owner/Operator shall continuously monitor and record the following NID system and fabric filter parameters for both Unit 1 and 2:

- * Flue gas temperature at the inlet to the NID system and outlet of the fabric filters;
- * Combined pressure differential across the NID system absorbers and fabric filters; and
- * Hydrated lime/byproduct mixture injection rate.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**SECTION E. Source Group Plan Approval Restrictions.****VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).



SECTION F. Alternative Operation Requirements.

No Alternative Operations exist for this Plan Approval facility.



SECTION G. Emission Restriction Summary.

No emission restrictions listed in this section of the permit.



SECTION H. Miscellaneous.



***** End of Report *****